

Ser. No. 10/619,294, First Response

IN THE CLAIMS

1. (currently amended): A loudspeaker for outputting sound in a frequency range including a lowest frequency f , the lowest frequency f having a wave number k ; the loudspeaker comprising:
a generally arcuate source of wind pulsating at the frequency f , the source having an arcuate radius r such that a quantity rk is approximately equal to or larger than one;

wherein r is greater than 1.00 feet;

whereby wind is converted into sound at the lowest frequency f and bass response is improved.

2. (currently amended): The loudspeaker ~~according to~~ of claim 1, wherein the generally arcuate source of wind comprises a plurality of electrodynamic loudspeakers disposed in an arcuate line array.

3. (currently amended): The loudspeaker ~~according to~~ of claim 1, comprising a central baffle aligned parallel with a plane defined by the generally arcuate source of wind.

4. (currently amended): The loudspeaker of claim 3, wherein the generally arcuate source of wind comprises a plurality of electrodynamic loudspeakers disposed in at least a portion of a generally arcuate line array, and the loudspeakers are mounted in the surface of the central baffle,
~~and the individual speakers are tilted inward;~~

5. (canceled)

6. (currently amended): The loudspeaker of claim ~~[[2]]~~ 4, comprising a hollow cabinet in which the loudspeakers are mounted, and wherein the loudspeakers are mounted in holes in the surface of the central baffle, ~~wherein the cabinet is sealed.~~

7. (canceled)

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8. (currently amended): The loudspeaker of claim ~~[[3]]~~ 1, ~~wherein the generally arcuate source of wind describes an arc of the radius r from a single center point, and further comprising a mount for mounting at least one symmetry baffle aligned substantially perpendicular to the central baffle; a plane including the arcuate source and its radius, and wherein the arcuate source of wind extends around an arc and meets the symmetry baffle generally perpendicularly;~~

9. (currently amended): The loudspeaker of claim 8, wherein the symmetry baffle is a radial symmetry baffle and a center point of the arc lies adjacent the symmetry baffle.

10.-17. (canceled)

18. (previously presented): A method of creating sound of a frequency f , having a wave number k ; the method comprising:

providing a generally arcuate source of pulsating wind having an outer arcuate radius r such that a quantity rk is approximately equal to or larger than one; and

pulsating the wind at the frequency f , whereby the pulsating wind is converted into sound at the frequency f with a high radiation efficiency; ~~[[.]]~~

wherein r is greater than 1.00 feet.

19. (previously presented): The method of claim 18, comprising providing a central baffle aligned with a plane defined by the generally arcuate source of wind.

20. (previously presented): The method of claim 19, comprising providing at least one symmetry baffle aligned substantially perpendicular to the central baffle, and wherein the step of providing a generally arcuate source of pulsating wind includes providing the arcuate source around an arc to meet the symmetry baffle generally perpendicularly.

21. (currently amended): The loudspeaker of claim 4, wherein the speakers are ~~[[all]]~~ tilted relative to the central baffle, at a same angle:

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22. (new): The loudspeaker of claim 8, wherein the center point is on a central baffle or at an edge of the central baffle.
23. (new): The loudspeaker of claim 1, wherein the arc of the radius r includes a $1/n$ fraction of a whole circle, where n is an integer.
24. (new): The loudspeaker of claim 1, wherein the arc extends around a full circle and the loudspeaker includes a central baffle but lacks a symmetry baffle.
25. (new): The loudspeaker of claim 8, comprising a first symmetry baffle and a second symmetry baffle, and wherein the first symmetry baffle and the second symmetry baffle are set at an angle to one another.
26. (new): A loudspeaker for outputting sound in a frequency range including a lowest frequency f , the lowest frequency f having a wave number k ; the loudspeaker comprising:
a central baffle including a source of wind pulsating at the frequency f , the source extending over an arc of radius r such that a quantity rk is approximately equal to or larger than one;
the central baffle being bounded by at least one symmetry baffle, the symmetry baffle being perpendicular to the central baffle; and
the source of wind being adjacent to the symmetry baffle;
whereby wind is converted into sound at the lowest frequency f and bass response is improved.
27. (new): The loudspeaker of claim 26, wherein r is greater than 1.00 feet.
28. (currently amended): The loudspeaker of claim 21, wherein the speakers are all tilted at a same angle.